Chem 120 Organic Chemistry Questions and Answers with Complete Solutions

Hydrocarbons - ANSWER compounds composed only of carbon and hydrogen

four basic types of hydrocarbons - ANSWER alkanes, alkenes, alkynes, aromatic hydrocarbons

Alkane: Type of bonds and generic formula - ANSWER all single bonds C*H²ⁿ⁺² Saturated with Hydrogen (single bonds)

Structural formula - ANSWER how each carbon and hydrogen connected

Structure of alkanes - ANSWER carbons in alkanes are sp3 hybrids tetrahedral geometry only sigma bonds FREE ROTATION

Condensed structural formula - ANSWER not all hydrogen bonds shown, but all Carbon bonds are shown

Carbon skeleton formula - ANSWER no hydrogen shown (insinuated) squiggle where each point is a carbon

minimum number of carbons necessary for hydrocarbon to form? - ANSWER 4

structural isomers - ANSWER have the same molecular formulas, but the atoms are bonded in a different order

Organic Nomenclature - ANSWER based on # of carbon atoms and ending of the hydrocarbon

organic nomenclature: for straight-chain alkanes - ANSWER base+suffix+ane ie. propane 3-single bonded carbon chain

meth - ANSWER 1 carbon

eth - ANSWER 2 carbon

prop - ANSWER 3 carbon

but - ANSWER 4 carbon

pent - ANSWER 5 carbon

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The Success Manual for General Chemistry Elizabeth Kean, Catherine Middlecamp, 1986 Scientific and Technical

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